

Figure 1

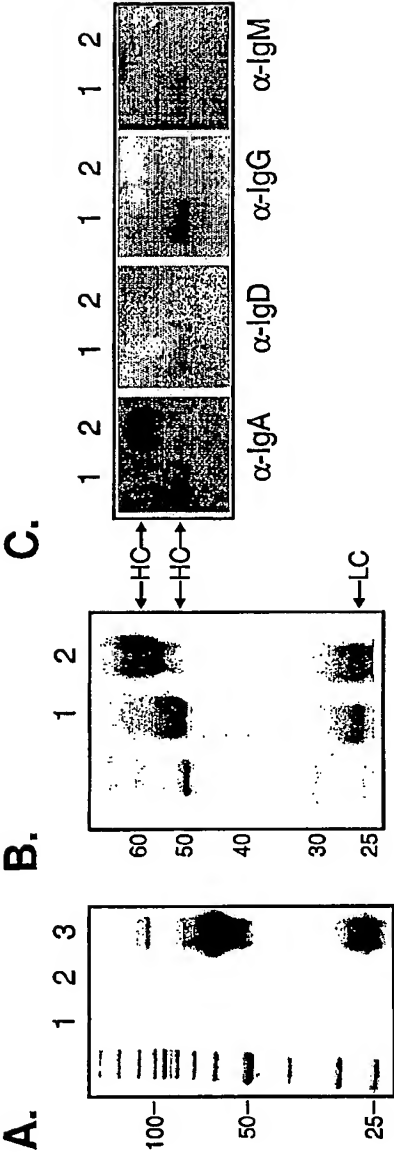


Figure 2

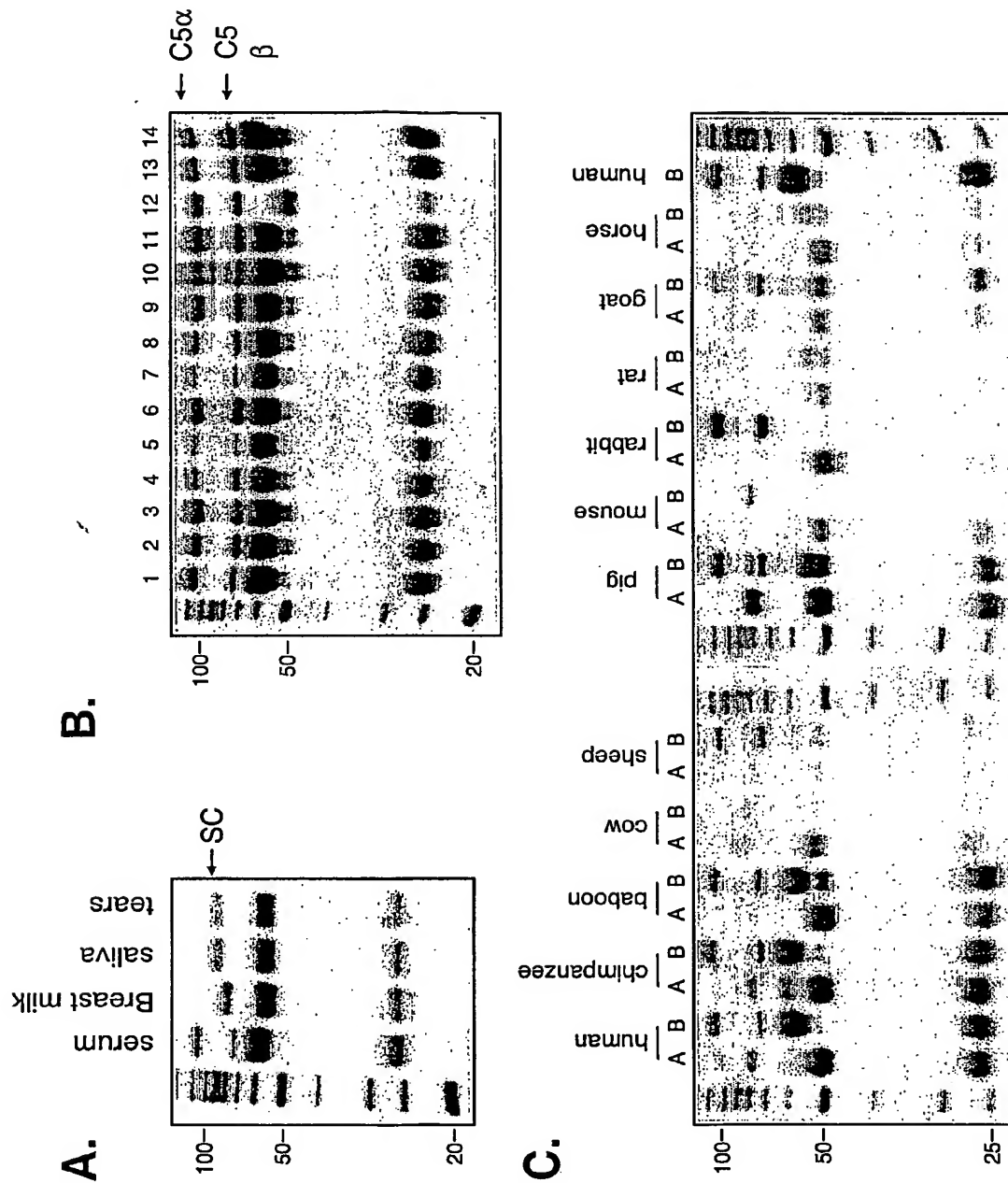


Figure 3

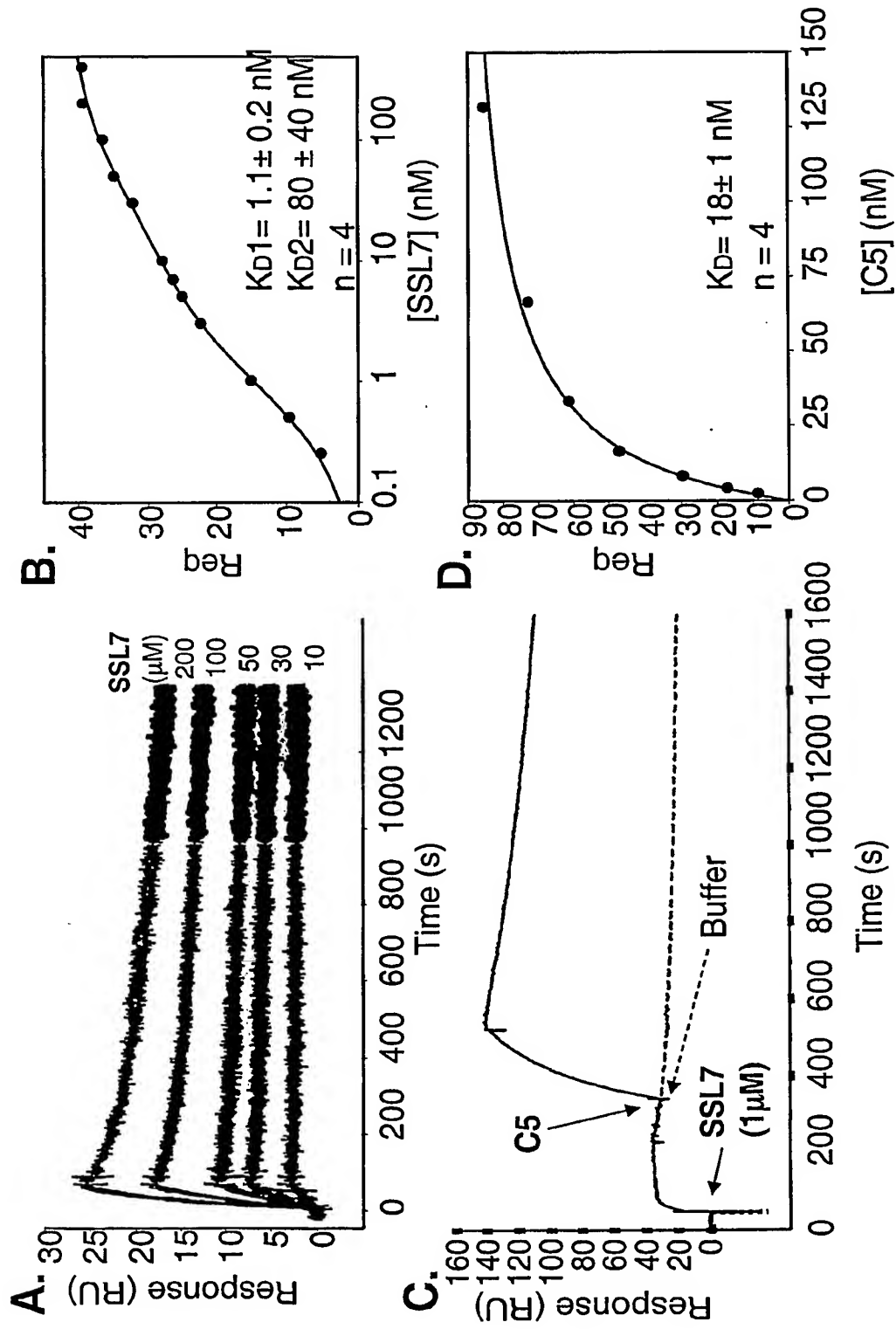


Figure 4

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A.

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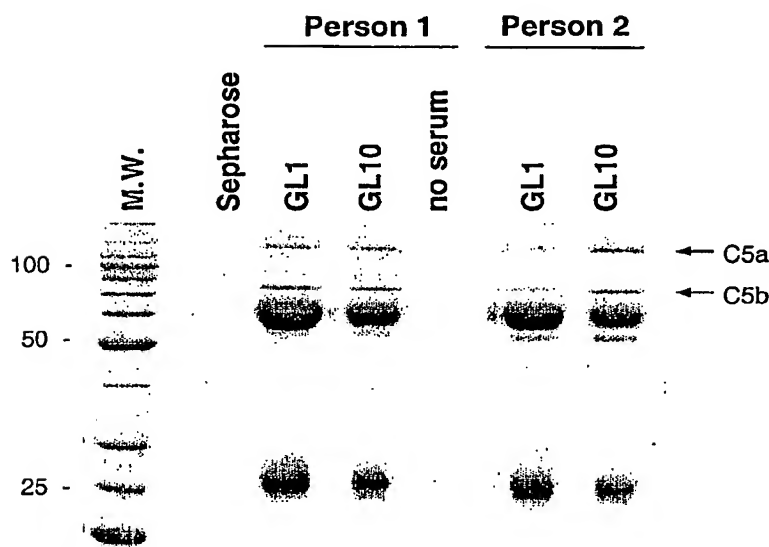
SSL7_GL10      KEKQERVQHLYDIKDLHRYYSSESFEFSNISGKVENYNGSNVVRFNQDQGNHQLFLLGED
SSL7_GL1      KEKQERVQHLYDIKDLHRYYSSESFEFSNISGKVENYNGSNVVRFNQEKQNHQLFLLGED
SSL7_MW2      KEKQERVQHLYDIKDLHRYYSSESFEFSNISGKVENYNGSNVVRFNQENQNHQLFLLSGKD
SSL7_NCTC8325 KEKQERVQHLYDIKDLHRYYSSESFEFSNISGKVENYNGSNVVRFNQENQNHQLFLLGKD
SSL7_Mu50     KEKQERVQHLYDIKDLRYYSSESFEFSNISGKVENYNGSNVVRFNQEKQNHQLFLLGKD
SSL7_N315     KEKQERVQHLYDIKDLRYYSSESFEFSNISGKVENYNGSNVVRFNQEKQNHQLFLLGKD
SSL7_NCTC6571 AEKQERVQHLHDIRDLHRYYSSESFEFSNVSNGKVENYNGSNVVRFNPKDQNHQLFLLGKD
                *****;*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*

SSL7_GL10      KAKYKQGLEGNVVFVKELIDPNGLRSTVGGVTKKNNQSSETNTPLFVKVYGGNLDASI
SSL7_GL1      KAKYKQGLQGQDVVFVKELIDPNGLRSTVGGVTKKNNQSSETNTPLFVKNKLDGGNLDATN
SSL7_MW2      KDKYKEGLEGNVVFVKELIDPNGLRSTVGGVTKKNNQSSETNTPLFIKKVYGGNLDASI
SSL7_NCTC8325 KEKYKEGIEGKDVVFVKELIDPNGLRSTVGGVTKKNNKSSETNTPLFVNKVYGGNLDASI
SSL7_Mu50     KDKYKQGLEGNVVFVKELIDPNGLRSTVGGVTKKNNKSSETNTPLFVNKVYGGNLDASI
SSL7_N315     KDKYKQGLEGNVVFVKELIDPNGLRSTVGGVTKKNNKSSETNTPLFVNKVYGGNLDASI
SSL7_NCTC6571 KEQYKEGLQGQNVVFVQELIDPNGLRSTVGGVTKKNNKTSSETNTPLFVNKVNGEDLDASI
                *~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*

SSL7_GL10      ESFSINKEEVSLKELDFKIRQHLVKNYGLYKGTTKYKGITFNLKDGEKKEIDLGDKLQFE
SSL7_GL1      DSFLINKEEVSLKELDFKIRKQLVEKYGLYQGTSTKYKGITIILNGGKKQEBIDLGDKLQFE
SSL7_MW2      ESFLINKEEVSLKELDFKIRQHLVKNYGLYKGTTKYKGITFNLKDGEKQEBIDLGDKLQFE
SSL7_NCTC8325 DSFSINKEEVSLKELDFKIRQHLVKNYGLYKGTTKYKGITINLKDGEKQEBIDLGDKLQFE
SSL7_Mu50     DSFLINKEEVSLKELDFKIRKQLVEKYGLYKGTTKYKGITINLKDGEKQEBIDLGDKLQFE
SSL7_N315     DSFLINKEEVSLKELDFKIRKQLVEKYGLYKGTTKYKGITINLKDGEKQEBIDLGDKLQFE
SSL7_NCTC6571 DSFLIQKEEISLKELDFKIRQQLVNNYGLYKGTSTKYKGIINLKDENEKVEIDLGDKLQFE
                ;**~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*

SSL7_GL10      HMGDVLNSKDIQNIATLTKQI
SSL7_GL1      RMGDVLNSKDIQNIATLTKQI
SSL7_MW2      HMGDVLNSKDIQNIATVINQI
SSL7_NCTC8325 RMGDVLNSKDIQNIATLTKQI
SSL7_Mu50     RMGDVLNSKDIQNIATVINQI
SSL7_N315     RMGDVLNSKDIQNIATVINQI
SSL7_NCTC6571 RMGDVLNSKDIRGISVTINQI
                ;*****~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*:~*

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B.

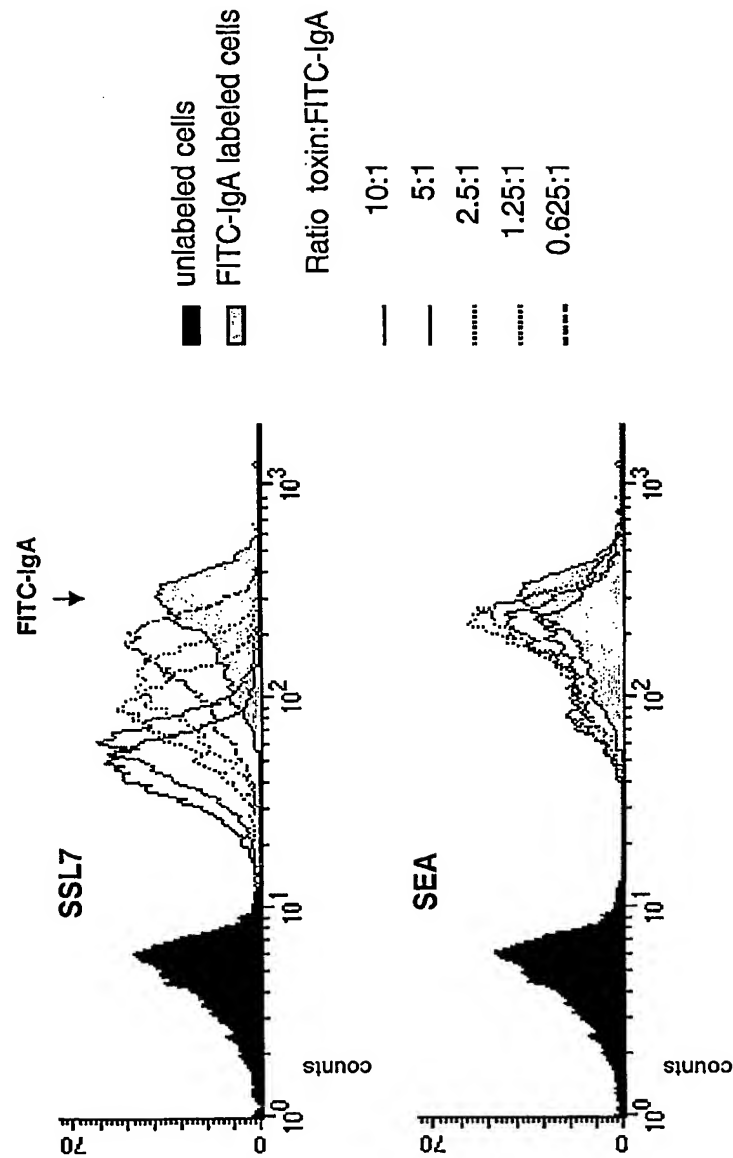


Figure 6

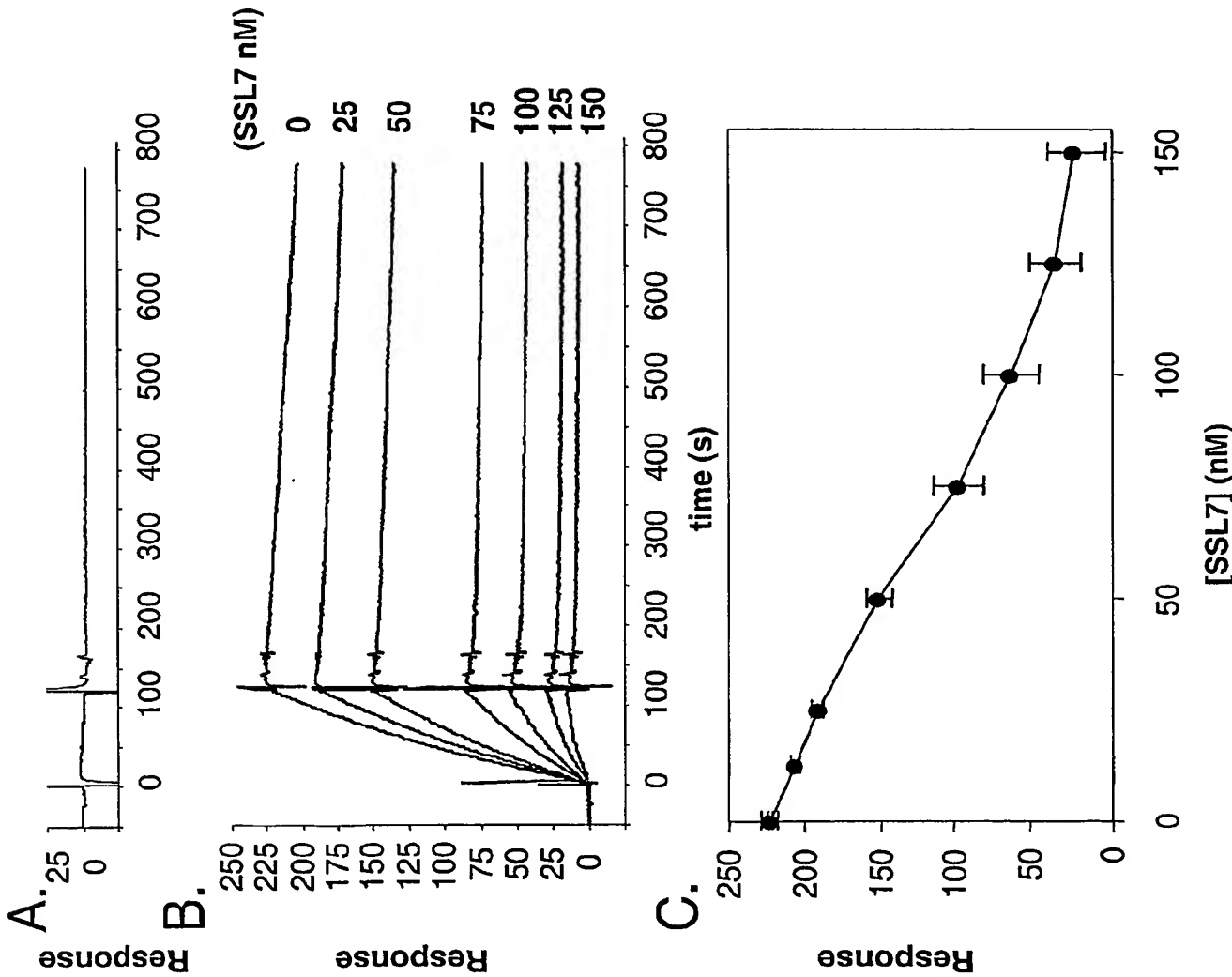


Figure 7

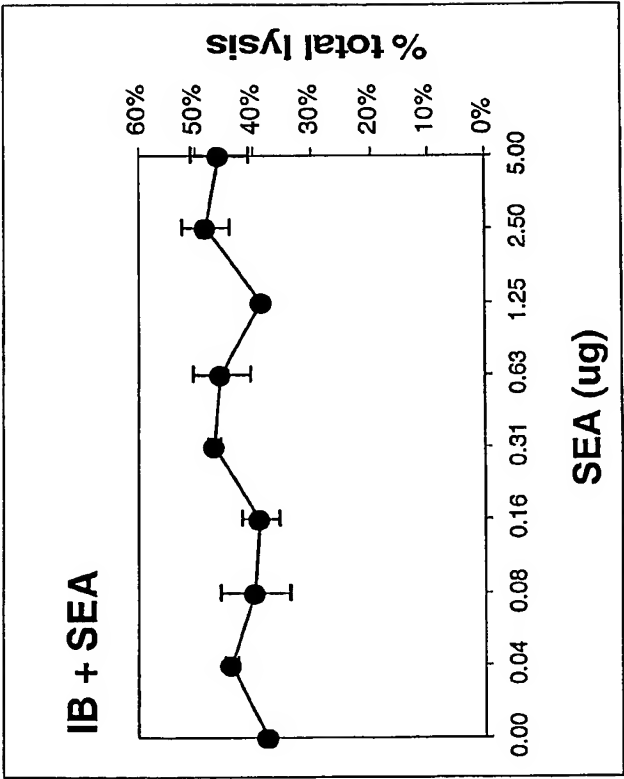
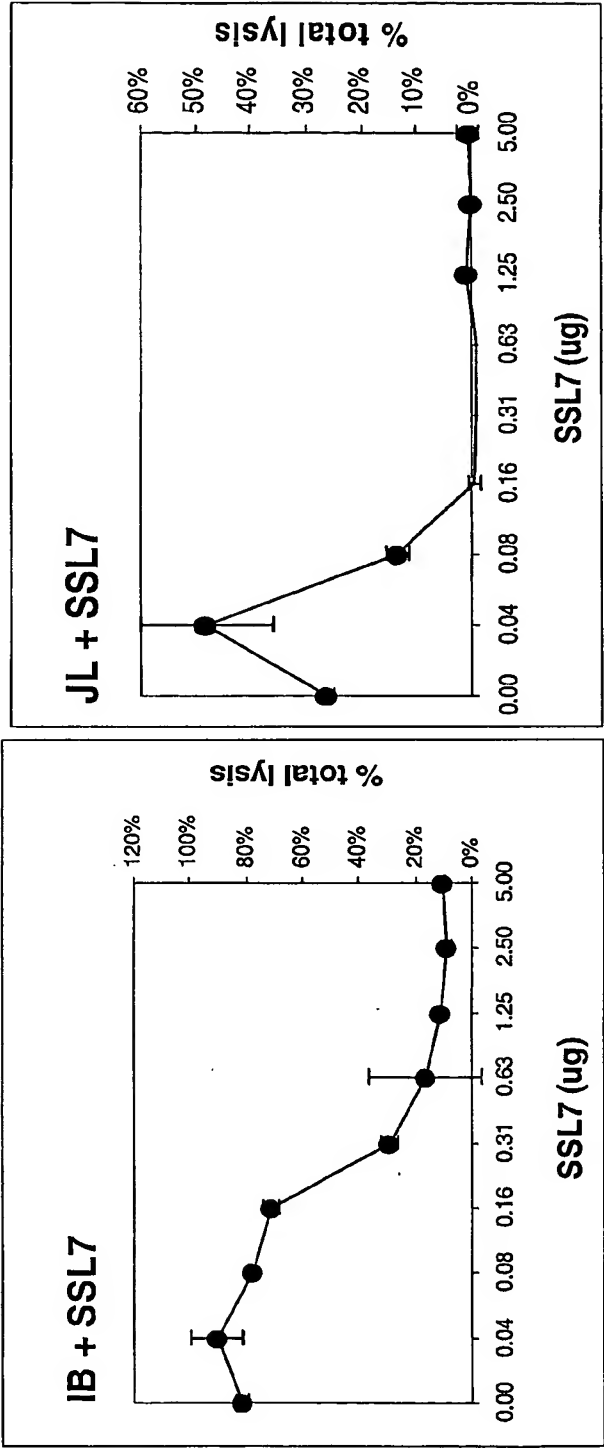
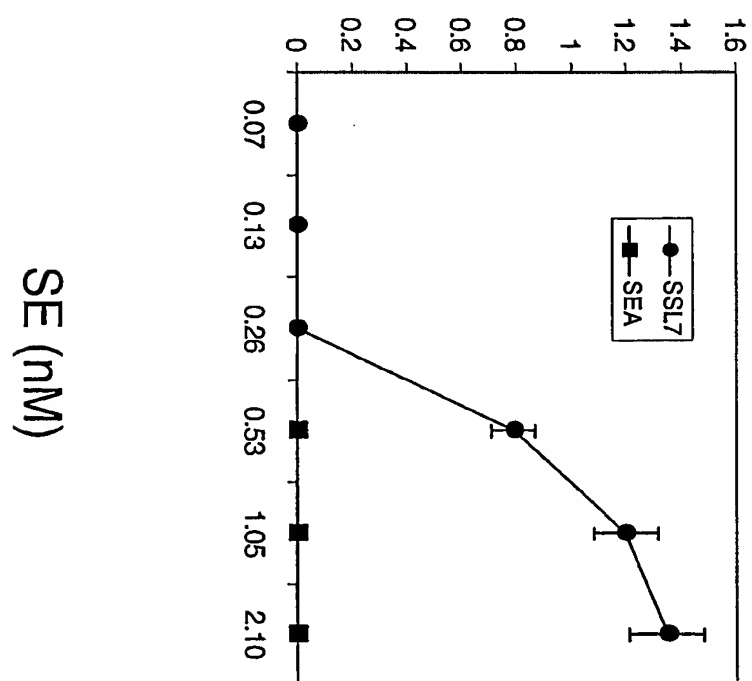


Figure 8

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Bacterial Survival (cfu x 10⁻⁶)

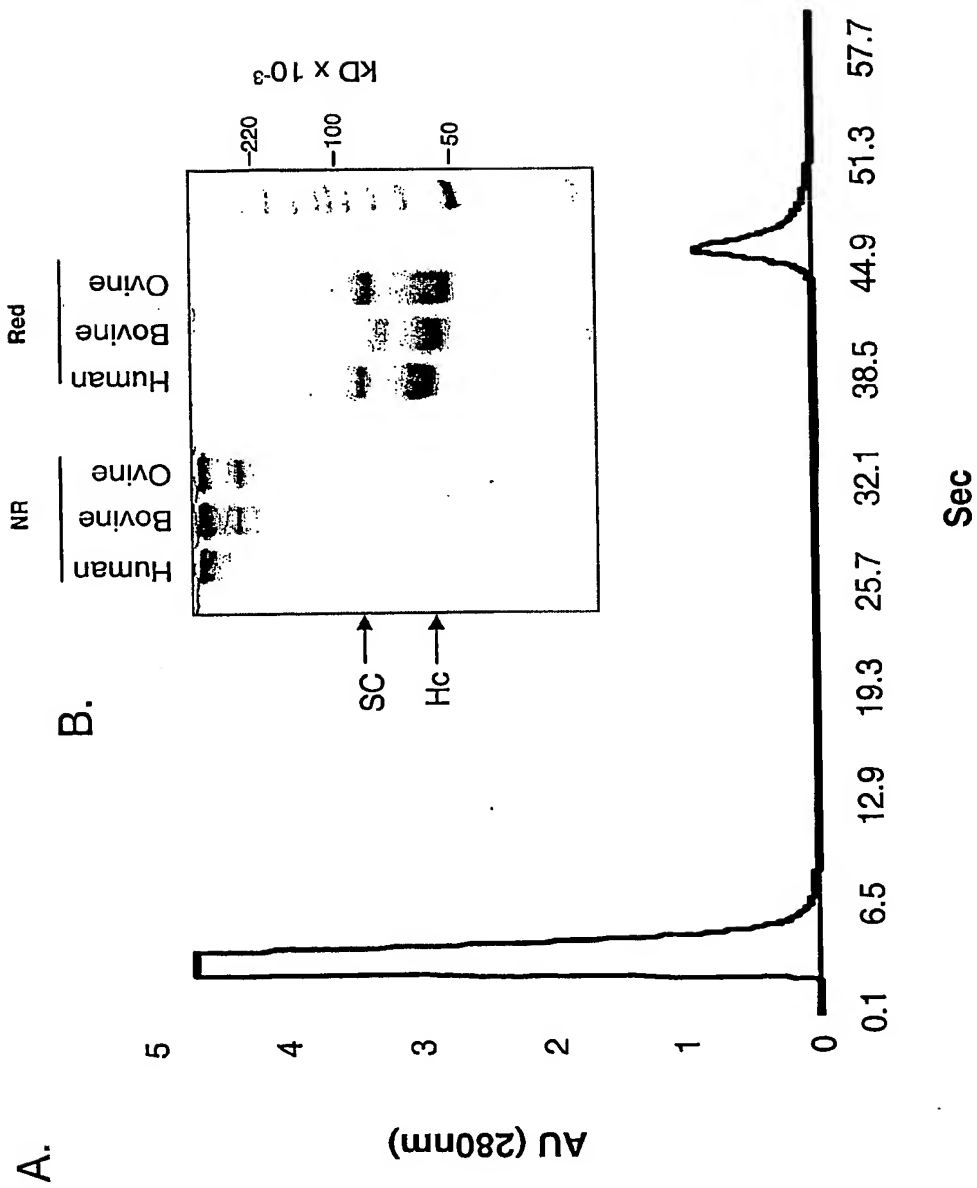


Figure 10